

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-333617

(43)Date of publication of application : 22.12.1995

(51)Int.Cl.

G02F 1/1337

G02F 1/1335

G02F 1/139

(21)Application number : 06-121630

(71)Applicant : TOSHIBA CORP

(22)Date of filing : 03.08.1994

(72)Inventor : HISATAKE YUZO

SATOU MAKIKO

ISHIKAWA MASAHIRO

OYAMA TAKESHI

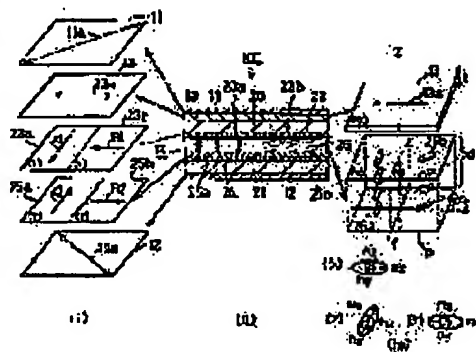
HADO HITOSHI

(54) LIQUID CRYSTAL DISPLAY ELEMENT

(57)Abstract:

PURPOSE: To improve coloration and dependency upon visual angles by arranging a phase difference plate having an optical axis between at least one polarizing plates and a liquid crystal cell.

CONSTITUTION: The liquid crystal cell 14 and the phase difference plate 13 having the optical axis in the plane direction of the element are arranged between two sheets of the polarizing plates 11 and 12. The liquid crystal cell 14 forms plural pixels and the respective pixels respectively consist of two regions (a), (b). The orientation directions of both cell substrates of the respective regions are parallel and intersect orthogonally with the orientation direction of the other region. The rubbing direction of the one region is arranged in parallel with the optical axis 13a of the phase difference plate. The retardation value of the phase difference plate is set at 255 to 295 μ m and the refractive index anisotropy Δn of the liquid crystals of the liquid crystal cell is set at 255 to 295 μ m.



LEGAL STATUS

[Date of request for examination]

04.08.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

3292591

[Date of registration]

29.03.2002

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

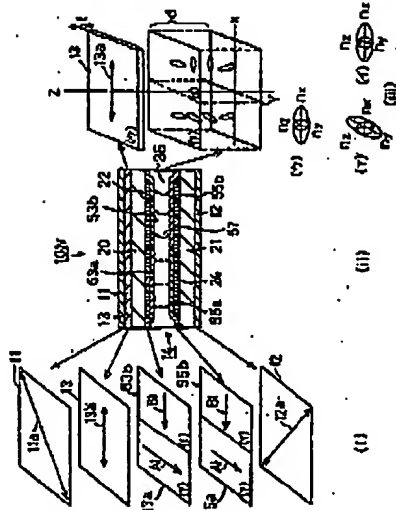
[Date of extinction of right]

BEST AVAILABLE COPY

特開平7-333617

(14)

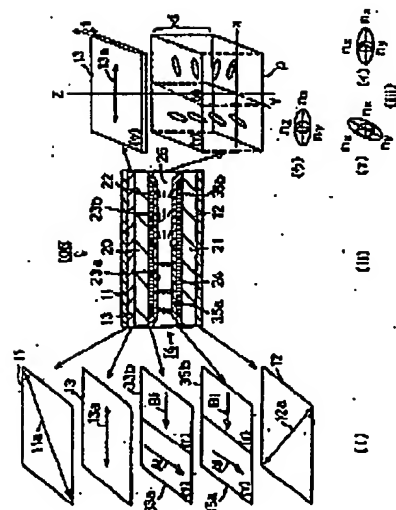
(圖4)



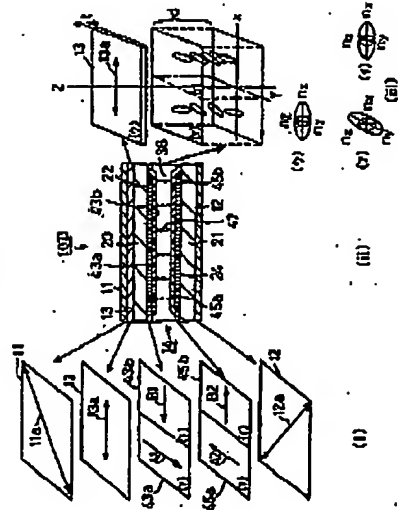
特開平7-333617

(13)

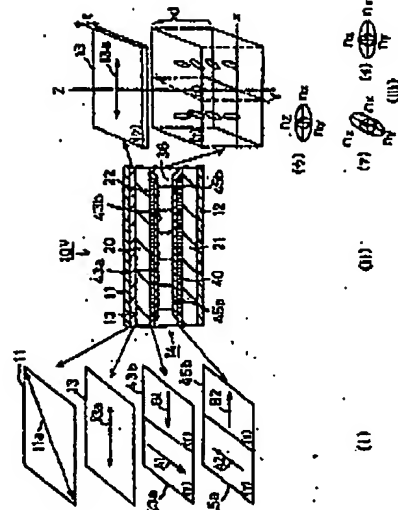
(圖2)



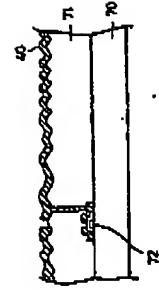
(圖3)



(圖5)



(圖22)



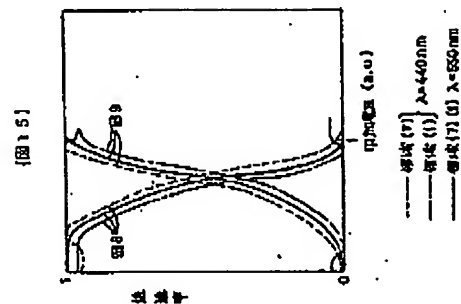
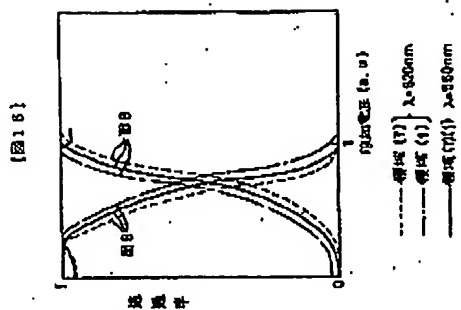
-14-

BEST AVAILABLE COPY

-13-

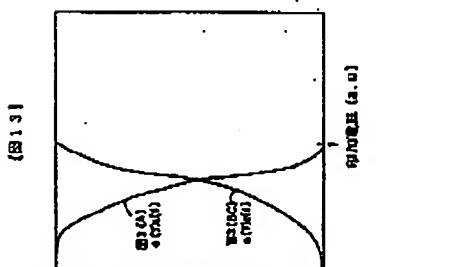
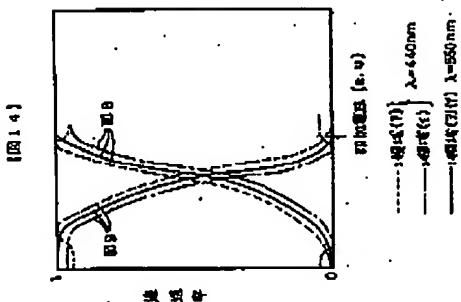
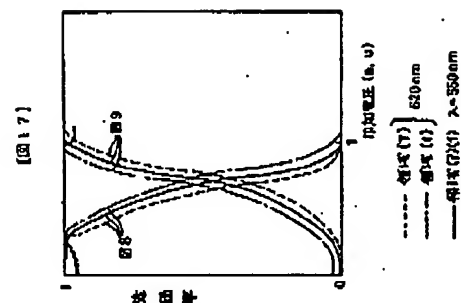
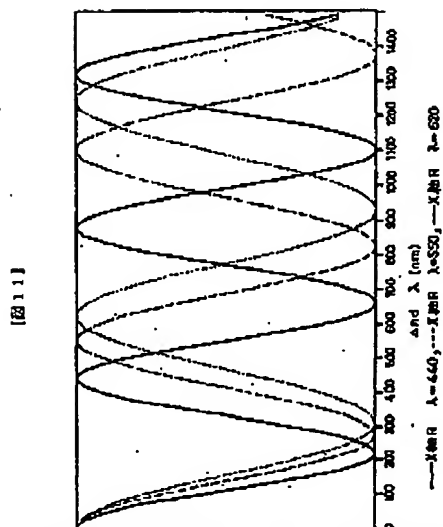
特開平 7-393617

(16)



特開平 7-393617

(17)



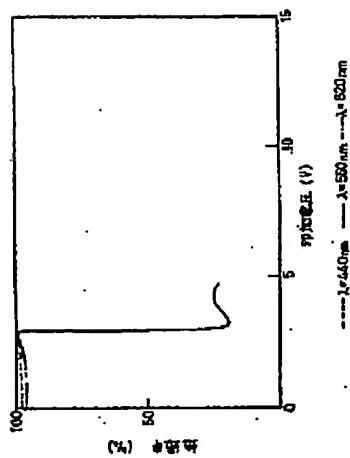
BEST AVAILABLE COPY

BEST AVAILABLE COPY

特開2007-333617

(21)

【図25】



ントペーシの検査

発明者 大山 敏

神奈川県横浜市磯子区新砂田町8番地 株
式会社東芝株式会社内

(72)発明者 岩瀬 仁

神奈川県横浜市磯子区新砂田町8番地 株
式会社東芝株式会社内